

WHAT IS CLAIMED IS:

1                   1.       A method of transferring data between a plurality of computing  
2 environments, each of which includes a plurality of optical sources and an optical detector, said  
3 method comprising:

4                    associating a pair of plurality of computing environments with a pair of  
5 holographic transform functions, with said pair of holographic transform functions associated  
6 with said pair of computing environments differing from the pairs of holographic transform  
7 functions associated with the remaining pairs of computing environments of said plurality of  
8 computing environments;

9                    producing, with one of said plurality of optical sources of said pair of computing  
10 environments, optical energy modulated with data, defining modulated optical energy;

11                   transforming said modulated optical energy with one of said pair of holographic  
12 transform functions, defining transformed modulated optical energy;

13                   broadcasting said transformed modulated optical energy into a volume by  
14 reflecting said transformed modulated optical energy from a body having a conically shaped  
15 body; and

16                   sensing said data with the detector associated with the remaining computing  
17 environment of said pair of computing environments.

1                   2.       The method as recited in claim 1 wherein sensing said data energy further  
2 includes performing an inverse transform on said transformed modulated optical energy, with  
3 one of said pair of holographic transform functions associated with said pair of computing  
4 environments, before sensing said modulated optical, to retrieve said modulated optical energy.

1                   3.       The method as recited in claim 1 wherein broadcasting said transformed  
2 modulated optical energy into a volume further includes dispersing said transformed modulated  
3 optical energy into said volume by reflecting said transformed modulated optical energy from a  
4 reflective surface having a conical shape.

1                   4.     The method as recited in claim 1 wherein broadcasting said transformed  
2 modulated optical energy into a volume further includes propagating a toroidal sheet of  
3 transformed modulated optical energy into said volume by reflecting said transformed modulated  
4 optical energy from a surface having a hyperbolic shape.

1                   5.     The method as recited in claim 1 wherein broadcasting said transformed  
2 modulated optical energy into a volume further includes radiating said transformed modulated  
3 optical energy into said volume over a plurality of directions by reflecting said transformed  
4 modulated optical energy from a surface having a plurality of planar regions formed thereon.

1                   6.     The method as recited in claim 1 wherein one of said pair of computing  
2 environments is located in a first building and the remaining computing environments is located  
3 in a second building, spaced-apart from said first building.

1                   7.     The method as recited in claim 1 wherein one of said pair of computing  
2 environments is located in a building and the remaining computing environments is located in a  
3 vehicle.

1                   8.     The method as recited in claim 1 wherein one of said pair of computing  
2 environments is located in a first vehicle and the remaining computing environments is located in  
3 a second vehicle, spaced-apart from said first building.

1                   9.     A network, comprising:  
2                   a plurality of computing environments, each of which includes a plurality of  
3 optical sources and an optical detector and a dispersive element in optical communication with  
4 said plurality of optical sources; and  
5                   an optical transceiver system in data communication with each of said plurality of  
6 computing environments, said optical transceiver system including a plurality of holographic  
7 transform functions, each of which is associated with said detector of each of said plurality of  
8 computing environments, with said holographic transform function associated with one of the  
9 detectors said plurality of computing systems subsystems differing from the holographic  
10 transform functions associated with the detectors of the remaining computing environments of  
11 said plurality of computing environments.

1           10.    The network as recited in claim 9 wherein said dispersive element further  
2 includes a body having a reflective exterior surface with a conical shape.

1           11.    The network as recited in claim 9 wherein said dispersive element further  
2 includes a body having a reflective exterior surface with a hyperbolic shape.

1           12.    The network as recited in claim 9 wherein said dispersive element further  
2 includes a body having a reflective exterior surface with a plurality of planar regions formed  
3 thereon.

1           13.    The network as recited in claim 9 wherein one of said pair of computing  
2 environments is located in a first building and the remaining computing environments is located  
3 in a second building, spaced-apart from said first building.

1           14.    The network as recited in claim 9 wherein one of said pair of computing  
2 environments is located in a building and the remaining computing environments is located in a  
3 vehicle.

1           15.    The network as recited in claim 9 wherein one of said pair of computing  
2 environments is located in a first vehicle and the remaining computing environments is located in  
3 a second vehicle, spaced-apart from said first building.

1                   16.    A network, comprising:  
2                   a plurality of computing environments, each of which includes a plurality of  
3 optical sources and an optical detector and a dispersive element in optical communication with  
4 said plurality of optical sources;  
5                   means for associating a pair of plurality of computing environments with a pair of  
6 holographic transform functions, with said pair of holographic transform functions associated  
7 with said pair of computing environments differing from the pairs of holographic transform  
8 functions associated with the remaining pairs of computing environments of said plurality of  
9 computing environments;  
10                  means for producing, with one of said plurality of optical sources of said pair of  
11 computing environments, optical energy modulated with data, defining modulated optical  
12 energy;  
13                  means for transforming said modulated optical energy with one of said pair of  
14 holographic transform functions, defining transformed modulated optical energy;  
15                  means for broadcasting said transformed modulated optical energy into a volume  
16 by reflecting said transformed modulated optical energy from a body having a conically shaped  
17 body; and  
18                  means for sensing said data with the detector associated with the remaining  
19 computing environment of said pair of computing environments.

1                   17.    The network as recited in claim 16 wherein said means for sensing further  
2 includes means for performing an inverse transform on said transformed modulated optical  
3 energy, with one of said pair of holographic transform functions associated with said pair of  
4 computing environments. 18. The network as recited in claim 16 wherein said means for  
5 broadcasting further includes means for reflecting transformed modulated optical energy from a  
6 reflective surface to disperse said transformed modulated optical energy into said volume.

1                   19.    The network as recited in claim 16 wherein said means for broadcasting  
2 further includes means for reflecting transformed modulated optical energy from a reflective  
3 surface to propagate a toroidal sheet of transformed modulated optical energy into said volume.

1                   20.    The network as recited in claim 16 wherein said means for broadcasting  
2 further includes means for reflecting transformed modulated optical energy from a reflective  
3 surface to radiate said transformed modulated optical energy into said volume over a plurality of  
4 directions.

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